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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,638	03/06/2002	Takashi Kurumisawa	111730	6066
25944	7590	04/21/2005	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			NGUYEN, CHANH DUY	
			ART UNIT	PAPER NUMBER
			2675	
DATE MAILED: 04/21/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/090,638

**Applicant(s)**

KURUMISAWA, TAKASHI

**Examiner**

Chanh Nguyen

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 06 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) 3,5,6,10 and 11 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-2, 4, 7-9, 12-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 12/03 and 05/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Response of Election of Species***

1. The response of election of Species Requirement has been enter and considered by examiner.

### ***Election/Restrictions***

2. Applicant's election with traverse of election of Species A, Figures 1-4, claims 1-9, 11-12 in the reply filed on October 20, 2004 is acknowledged. The traversal is on the ground(s) that the search and examination of the entire application could be made without serious burden. This is not found persuasive because the search of those species listed on last office action are serious burden and patentably distinct unless applicant submit evidence or identify such evidence now or record showing the species to be obvious variant or clearly admit on the record that this is the case. Furthermore ,claim 3 directs to Species of Figure 5, claims 5-6 direct to Species of Figure 6,claim 11 directs to Species of Figure 7. Thus, claims 3, 5-6 and 11 are also withdrawn from consideration.

The requirement is still deemed proper and is therefore made FINAL.

### ***Priority***

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

***Information Disclosure Statement***

4. The references list on the Information Disclosure Statement filed on December 30, 2003 and May 18, 2004 have been considered by examiner (see attached PTO-1449).

***Drawings***

5. Figures 11a-11b and 12 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Specification***

6. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

***Claim Rejections - 35 USC § 102***

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

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only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claims 1, 2, 4, 7-9 and 12-14 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Hinata et al (U.S. Pub. No. 2002/0118325 A1).

As to claim 1, Hinata discloses an electro-optical device, comprising: a plurality of electro-optical elements (LCD 23 formed intersection between electrodes 10 and 11). Hinata teaches a first substrate (e.g., 200) formed with a plurality of first electrodes (11) that supplies a plurality of first signals (i.e. scanning signal) to drive the plurality of electro-optical elements (23); a second substrate (300) facing the first substrate, the second substrate formed with a plurality of second electrodes (10) that supplies a plurality of second signals (i.e. segment signal) to drive the plurality of electro-optical elements (23), and the plurality of first electrodes (11) and the plurality of second electrodes (10) being formed in a matrix shape (see Figs. 1 and 11).

Hinata teaches a transfer member (4 in Fig.2 or 110 in Fig. 11), and a drive circuit (7) connected to at least one of the first substrate (200) and the second substrate (300) to supply the plurality of first signals (i.e. scanning signal) and the plurality of second signals (i.e. segment signal) to the plurality of first electrodes (11) and the plurality of second electrodes (10), respectively. Hinata teaches the first substrate (200) being formed with a plurality of first wirings (14) through which the drive circuit (7) supplies the plurality of first signals (i.e. scanning signal) to the plurality of first electrodes (11), and the second substrate (300) being formed with a plurality of second wirings (350) (see Fig.14) through which the drive circuit (7) supplies the plurality of first signals (i.e.

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scanning signal) to the plurality of first electrodes (11), the plurality of second wirings (350) facing and being connected to the plurality of first wirings (14) through the transfer member (4 in Fig. 2 or 110 in Fig. 11).

As to claim 4, Hinata discloses an electro-optical device including a substrate (e.g., 300) formed with a plurality of signal electrodes (10); a plurality of routing wirings (14-15); a transfer member (4 in Fig. 2 or 110 in Fig. 11). Hinata teaches another substrate (200) formed with a plurality of scanning electrodes (11) facing the substrate (300), the plurality of signal electrodes (10) and the plurality of scanning electrodes (11) being arranged in a matrix shape when viewed in a plane to define image display regions (see Figs. 1 and 11).

Hinata teaches the substrate (e.g., 300) being formed with a drive circuit (7) to drive the signal electrodes (10) and the scanning electrodes (11), the drive circuit (7) being connected to at least one of each of the signal electrodes (10) and each of the scanning electrodes (11) through the plurality of routing wirings (14-15) formed on each of the substrates (200, 300); the routing wirings (14-15) to connect the drive circuit (7) to the electrodes (10, 11) are formed on one of the substrates that corresponds to a picture-frame area (area between end scanning electrodes and the edges of left/right side of the display panel) located at the end side of the electrodes extending in one of the directions along which the plurality of electrodes are arranged in a matrix shape (see Fig.1).

Hinata teaches routing sub-wirings (350, 360) being formed in a picture-frame area on the other substrate not formed with the routing wirings (14, 15) so as to face

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the routing wirings (14, 15), and the routing wirings (14, 15) and the routing sub-wirings (350, 360) facing each other on both the substrates are conducted by the transfer member (4 in Fig. 2 or 110 in Fig. 11) laid between the substrates.

As to claim 2, Hinata teaches a plurality of first wirings (14) having wiring portions (horizontal portion) extending in parallel with each other, a plurality of second wirings (15) having wiring portions (vertical portions) extending in parallel with each other; and a face defined by the wiring portion of each of the plurality of first wirings and the corresponding wiring portion of each of the plurality of second wirings is orthogonal to each of a face defined by the wiring portions of the plurality of first wirings and a face defined by the wiring portions of the plurality of second wirings (see Fig. 1).

As to claim 7, Hinata clearly teaches picture-frame areas (areas between end scanning electrodes and the edges of left/right side of the display panel) having an equal width being formed on left and right sides of the image display regions (see Fig.1).

As to claim 8, Hinata clearly teaches the routing sub-wirings (350, 360) being formed to be independent wirings not connected to any one of the electrodes (10, 11) on the substrate formed with the routing sub-wirings (14, 15).

As to claim 9, Hinata clearly teaches the transfer member (4) including a plurality of conductive particles dispersed inside an insulating resin layer (see paragraph 0097).

As to claim 12, Hinata clearly teaches the plurality of routing wirings formed on the picture-frame areas including a routing wiring for an electrode located farther from the drive circuit that has a width greater than

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another routing wiring for another electrode located closer to the drive circuit, with the electrodes being connected to the drive circuit (see Figure 1).

As to claim 13, Hinata discloses the signal electrodes include a pixel electrode part formed at every pixel and a two-terminal nonlinear element disposed between a signal wiring part and the pixel electrode part (see Fig. 23).

As to claim 14, Hinata clearly teaches an electronic device (e.g., lap top computer, Fig.37) an electro-optical device (LCD 23).

### ***Conclusion***

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kishigami (U.S. Patent No. 5,467,210), Kato (U.S. Patent No. 6,486,412), Toda et al (U.S. Patent No. 6,809,390) are cited to teach similar feature of the Hinata's device.

### ***Inquiries***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chanh Nguyen whose telephone number is (571) 272-7772. The examiner can normally be reached on Monday- Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*cnl*

C. Nguyen  
April 15, 2005

*Chanh Nguyen*  
Chanh Nguyen  
Primary Examiner  
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